Canon

IMAGE SENSOR		
	Type	27.9mm x 18.6mm CMOS
	Effective Pixels	Approx. 16.10 megapixels
	Total Pixels	Approx. 17.00 megapixels
	Aspect Ratio	3.2
	Low-Pass Filter	Built-in/Fixed
	Sensor Cleaning	EOS integrated cleaning system with fluorine coating
	Colour Filter Type	Primary Colour

IMAGE PROCESSOR		
	Type	Dual "DIGIC 4"

LENS		
	Lens Mount	EF (excludes EF-S lenses)
	Focal Length	Equivalent to 1.3x the focal length of the lens

FOCUSING		
	Type	TTL-AREA-SIR with a dedicated CMOS sensor
	AF System/ Points	45 Point f/2.8 (39 f/2.8 cross-type)
	AF working range	EV -1 - 18 (at 23°C & ISO100)
	AF Modes	One Shot
		AI Servo
	AF Point Selection	Automatic selection: 45 point AF
		Manual selection: Single point AF (45, 19, 11 or 9 points selectable)
		Manual selection: Spot AF (with compatible lens)
		Manual selection: AF point Expansion (Left right,surround, all 45)
		AF points can be selected separately for vertical and horizontal shooting
	Selected AF point display	Superimposed in viewfinder
	Predictive AF [1]	Yes, up to 8m
	AF Lock	Locked when shutter button is pressed half way in One Shot AF mode or AF-ON button is pressed
	AF Assist Beam	Emitted by optional dedicated Speedlite
	Manual Focus	Selected on lens, default in Live View Mode
	AF Microadjustment	C.Fn III-7
		+/- 20 steps
		Adjust all lenses by same amount
		Adjust up to 20 lenses individually

EXPOSURE CONTROL		
	Metering modes	TTL full aperture metering with 63 zone SPC
		(1) Evaluative metering (linked to all AF point)
		(2) Partial metering (approx. 13.5% of viewfinder at centre)
		(3) Spot metering:
		Center spot metering (approx. 3.8% viewfinder
		AF point-linked spot metering (approx. 3.8% of viewfinder)
		Multi/Spot metering (Max 8 spot metering entries)
	Metering Range	EV 0 - 20 (at 23°C with 50mm f/1.4 lens ISO100)
	AE Lock	Auto: In One-shot AF mode with evaluative metering exposure is locked when focus is achieved
		Manual: By AE lock button in P, TV and AV modes
	Exposure Compensation	+/-3 EV in 1/3 or 1/2 stop increments (can be combined with AEB)
	AEB	2, 3, 5 or 7 Shots +/-3 EV 1/3 or 1/2 stop increments
	ISO Sensitivity [2]	Auto (100-12800), 100-12800 (in 1/3-stop or whole stop increments)
		ISO can be expanded to L: 50, H1: 25600, H2: 51200, H3 102400

SHUTTER		
	Type	Electronically-controlled focal-plane shutter
	Speed	30-1/8000 sec (1/2 or 1/3 stop increments) + Bulb (Shutter speed range available varies according to shooting mode)

WHITE BALANCE		
	Type	Auto white balance with the imaging sensor
	Settings	AWB, Daylight, Shade, Cloudy, Tungsten, White
		Fluorescent light, Flash, Custom, Colour Temperature Setting
		White balance compensation:
		1. Blue/Amber +/-9
		2. Magenta/ Green +/-9
	Custom White Balance	Yes, 5 setting can be registered

	WB Bracketing	+/-3 levels in single level increments 3 bracketed images per shutter release Selectable Blue/Amber bias or Magenta/ Green bias
VIEWFINDER		
	Type	Pentaprism
	Coverage (Vertical/Horizontal)	Approx. 100%
	Magnification	Approx. 0.76x [3]
	Eyepoint	Approx. 20mm (from eyepiece lens centre)
	Dioptre Correction	-3 to +1 m^{-1} (dioptre)
	Focusing Screen	Interchangeable (12 types, optional). Standard Focusing Screen Ec-C IV
	Mirror	Quick-return half mirror (Transmission: reflection ratio of 37:63, no mirror cut-off with EF1200mm f/5.6 or shorter)
	Viewfinder Information	AF information: AF points, focus confirmation light Exposure information: Metering mode, spot metering area, shutter speed, aperture, manual exposure, AE lock, ISO speed, exposure level, exposure warning Flash information: Flash ready, FP flash, FE lock, flash exposure level Image information: JPEG recording, RAW recording, number of remaining shots, maximum burst (2 digit display), highlight tone priority(D+), White balance correction, memory card information, battery check icon
	Depth of field preview	Yes, with Depth of Field preview button
	Eyepiece shutter	Built in
LCD MONITOR		
	Type	3.0" Clear View II TFT, approx. 920K dots
	Coverage	Approx. 100%
	Viewing Angle (horizontally/vertically)	Approx. 160°
	Coating	Anti-reflection and Solid Structure
	Brightness Adjustment	Adjustable to one of seven levels
	Display Options	(1) Quick Control Screen (2) Camera settings
FLASH		
	Modes	E-TTL II Auto Flash, Metered Manual
	X-sync	1/300sec (EX series Speedlites only)
	Flash Exposure Compensation	+/- 3EV in 1/2 or 1/3 increments
	Flash Exposure Bracketing	Yes, with compatible External Flash
	Flash Exposure Lock	Yes
	Second Curtain Synchronisation	Yes
	HotShoe/ PC terminal	Yes/ Yes
	External Flash Compatibility	E-TTL II with EX series Speedlites, wireless multi-flash support
	External Flash Control	via camera menu screen
SHOOTING		
	Modes	Program AE, Shutter priority AE, Aperture priority AE, Manual
	Picture Styles	Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Defined (x3)
	Colour Space	sRGB and Adobe RGB
	Image Processing	Highlight Tone Priority Auto Lighting Optimizer (4 settings) Long exposure noise reduction High ISO speed noise reduction (4 settings) Auto Correction of Lens Peripheral illumination
	Drive modes	Single, Continuous L, Continuous H, Self timer (2s+remote, 10s+remote), Silent single shooting
	Continuous Shooting	Max. Approx. 10fps. (speed maintained for up to 121 images (JPEG)[4] or 28 images (RAW))[5] (with UDMA card)
LIVE VIEW MODE		
	Type	Electronic viewfinder with image sensor
	Coverage	Approx. 100% (horizontally and vertically)
	Frame Rate	30 fps
	Focusing	Manual Focus (Magnify the image 5x or 10x at any point on screen) Autofocus: Quick mode, Live mode, Live Face detection mode
	Metering	Real-time evaluative metering with image sensor Active metering time can be changed
	Display Options	Grid overlay (x2), Histogram, Aspect ratios

FILE TYPE		
	Still Image Type	JPEG: 10 compression options (Exif 2.21 [Exif Print] compliant) / Design rule for Camera File system (2.0), RAW: RAW, mRAW, sRAW (14bit, Canon original RAW 2nd edition), Digital Print Order Format [DPOF] Version 1.1 compliant
	RAW+JPEG simultaneous recording	Yes, any combination of RAW + JPEG possible, separate formats to separate cards possible
	Image Size	JPEG: (L) 4896x3264, (M1) 4320x2880, (M2) 3552x2368, (S) 2448x1632
	Movie Type	MOV (Video: H.264, Sound: Linear PCM)
	Movie Size	1920 x 1080 (29.97, 25, 23.976 fps) 1280 x 720 (59.94, 50 fps) 640 x 480 (59.94, 50 fps)
	Movie Length	Max duration 29min 59sec, Max file size 4GB
	Folders	New folders can be manually created and selected
	File Numbering	(1) Consecutive numbering (2) Auto reset (3) Manual reset

OTHER FEATURES		
	Custom Functions	62 Custom Functions with 177 settings
	Metadata Tag	User copyright information (can be set in camera)
	LCD Panel / Illumination	Yes / Yes
	Water/ Dust resistance	Yes
	Sound Memo	Up to 30sec per image
	Intelligent Orientation Sensor	Yes
	Playback zoom	1.5x - 10x
	Display Formats	(1) Single image with information (2 levels) (2) Single image (3) 4 image index (4) 9 image index (5) Magnified view (6) Movie edit
	Slide Show	Image selection: All images, by Date, by Folder, Movies, Stills Playback time: 1/2/3/5 seconds Repeat: On/Off
	Histogram	Brightness: Yes RGB: Yes
	Highlight Alert	Yes
	Image Erase/Protection	Erase: Single image, All images in folder, Checkmarked images, unprotected images Protection: Erase protection of one image at a time
	Data Verification	Original image verification data and encryption can be appended to the image (OSK-E3 required for verification + encryption/decryption)
	Menu Categories	(1) Shooting menu (x2) (2) Playback menu (x2) (3) Setup menu (x3) (4) Custom Functions menu (5) My Menu
	Menu Languages	25 Languages English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Romanian, Ukrainian, Turkish, Arabic, Thai, Simplified Chinese, Traditional Chinese, Korean and Japanese
	Firmware Update	Update possible by the user

INTERFACE		
	Computer	Hi-Speed USB
	Other	HDMI mini output, Video output (PAL/ NTSC), Extension system terminal (for WFT-E2/ WFT-E2 II), External microphone (Stereo mini jack)

DIRECT PRINT		
	Canon Printers	Canon Compact Photo Printers and PIXMA Printers supporting PictBridge
	PictBridge	Yes

STORAGE		
	Type	CompactFlash Type I/ II (Microdrive compatible, UDMA compatible), SDHC, SD memory (up to 2GB), External Media (with Wireless File Transmitter WFT-E2 and WFT-E2 II only)

SUPPORTED OPERATING SYSTEM		
	PC & Macintosh	Windows XP (SP2/SP3) / Vista inc SP1 (excl. Starter Edition) OS X v10.4-10.5
SOFTWARE		
	Browsing & Printing Image Processing	ZoomBrowser EX / ImageBrowser Digital Photo Professional
	Other	PhotoStitch, EOS Utility (inc. Remote Capture, WFT utility*, Original Data Security Tools*), Picture Style Editor * Requires optional accessory
POWER SOURCE		
	Batteries	Rechargeable Li-ion Battery LP-E4 (supplied), 1xCR2025 for date & settings
	Battery life	Approx. 1500 (at 23°C)[6] Approx. 1200 (at 0°C)
	Battery Indicator Power saving Power Supply & Battery Chargers	6 levels + percentage Power turns off after 1, 2, 4, 8, 15, 30mins or Off. AC Adapter Kit ACK-E4, Battery charger LC-E4, Car Battery charger cable CG-570 (use with LC-E4)
PHYSICAL SPECIFICATIONS		
	Body Materials Operating Environment Dimensions (WxHxD) Weight (body only)	Magnesium Alloy body covers 0 – 45 °C, 85% or less humidity 156 x 156.6 x 79.9mm Approx. 1180g
ACCESSORIES		
	Viewfinder	Eyecup Eg, Eg-series Dioptric Adjustment Lens with Rubber Frame Eg, Anti Fog Eyepiece Eg, Focusing Screens Ec, Angle Finder C
	Wireless File Transmitter	Wireless File Transmitter WFT-E2*, WFT-E2 II
	Lenses	All EF lenses (excludes EF-S lenses)
	Flash	Canon Speedlites (220EX, 270EX, 380EX, 420EX, 430EX, 430EX II, 550EX, 580EX, 580EX II, Macro-Ring-Lite, MR-14EX, Macro Twin Lite MT-24EX, Speedlite Transmitter ST-E2)
	Remote Controller/ Switch Other	Remote control with N3 type contact, Wireless Controller LC-5 Original Data Security Kit OSK-E3, Hand Strap E1

All data is based on Canon standard testing methods except where indicated

Subject to change without notice.

[1] With EF300mm f/2.8L IS USM at 50kph

[2] Recommended Exposure Index

[3] With 50mm lens at infinity, -1m-1 dpt

[4] Large resolution JPEG quality setting 8

[5] Based on Canon's testing conditions, JPEG, ISO 100, Standard Picture Style

[6] Based on the CIPA Standard and using the batteries and memory card format supplied with the camera, except where

* Firmware update required